

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. Contract ID Code Cost Contract		Page 1 Of 9	
2. Amendment/Modification No.  P00002		3. Effective Date  2007JUL12		4. Requisition/Purchase Req No.  SEE SCHEDULE		5. Project No. (If applicable)	
6. Issued By U.S. ARMY TACOM LCMC AMSTA-AQ-ASGA SHERRI HENDERSON (586)574-8880 WARREN, MICHIGAN 48397-5000 HTTP://CONTRACTING.TACOM.ARMY.MIL WEAPON SYSTEM: WPN SYS: 00 EMAIL: SHERRI.HENDERSON@US.ARMY.MIL		Code W56HZV		7. Administered By (If other than Item 6) OFFICE OF NAVAL RESEARCH (ONRRO) ATLANTA REGION OFFICE 100 ALABAMA ST., NW SUITE 4R15 ATLANTA, GA 30303-3104		Code N66020	
				SCD C PAS NONE ADP PT N62879			
8. Name And Address Of Contractor (No., Street, City, County, State and Zip Code)  UNIVERSITY OF DELAWARE 162 HULLIHEN CT ROOM 112 NEWARK, DE 19711-3649  TYPE BUSINESS: Other Educational				<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		9A. Amendment Of Solicitation No.  9B. Dated (See Item 11)  10A. Modification Of Contract/Order No. W56HZV-07-C-0142  10B. Dated (See Item 13) 2007JUN08	
Code 015X1		Facility Code					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing items 8 and 15, and returning _____ copies of the amendments: (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. Accounting And Appropriation Data (If required) NO CHANGE TO OBLIGATION DATA							
13. THIS ITEM ONLY APPLIES TO MODIFICATIONS OF CONTRACTS/ORDERS It Modifies The Contract/Order No. As Described In Item 14.							
KIND MOD CODE: G							
<input type="checkbox"/> A. This Change Order is Issued Pursuant To: The Changes Set Forth In Item 14 Are Made In The Contract/Order No. In Item 10A.							
<input type="checkbox"/> B. The Above Numbered Contract/Order Is Modified To Reflect The Administrative Changes (such as changes in paying office, appropriation data, etc.) Set Forth In Item 14, Pursuant To The Authority of FAR 43.103(b).							
<input checked="" type="checkbox"/> C. This Supplemental Agreement Is Entered Into Pursuant To Authority Of: Mutual Agreement of Both Parties							
<input type="checkbox"/> D. Other (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return _____ copies to the Issuing Office.							
14. Description Of Amendment/Modification (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)  SEE SECOND PAGE FOR DESCRIPTION							
Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. Name And Title Of Signer (Type or print)				16A. Name And Title Of Contracting Officer (Type or print) DEREK MCALEER DEREK.MCALEER@US.ARMY.MIL (586)574-8093			
15B. Contractor/Offeror  (Signature of person authorized to sign)		15C. Date Signed		16B. United States Of America  By _____ /SIGNED/ (Signature of Contracting Officer)		16C. Date Signed  2007JUL12	
NSN 7540-01-152-8070 PREVIOUS EDITIONS UNUSABLE				30-105-02		STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243	

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SECTION A - SUPPLEMENTAL INFORMATION

Modification P00002 to W56HZV-07-C-0142,

1. The purpose of this bilateral modification is to transfer Government Furnished Property (GFP) to this contract and to add a Data Item to the Contract Data Requirements List (CDRL).
2. As a result of this modification, the following changes are made:
  - a. Section C, added C.5.1.8, Coordinated Test Plan.
  - b. Section H, added H.8, Government Furnished Property.
  - c. Section J, added attachment 0002, Government Furnished Property list.
3. All other terms and conditions of this contract remain the same.

\*\*\* END OF NARRATIVE A0002 \*\*\*

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SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

C.1 SCOPE OF WORK for COMPOSITE STRUCTURES INITIATIVE

C.1.1 The Contractor, as an independent Contractor and not as an agent of the Government shall furnish the supplies and services for the level of effort (LOE) in section B to accomplish engineering and other related technical services required for the Composite Materials Technology Collaborative Program. The activities performed by the Contractor may be in support of any aspect of TARDECs mission to create a more lightweight, lethal, and survivable combat and tactical fleet.

C.1.2 WORK DIRECTIVE REQUIREMENTS

C.1.2.1 All work shall be performed in accordance with work directives issued by the Procuring Contracting Officer (PCO). No work shall commence until the Contractor has received a signed copy of a work directive. All work shall be performed in sequential order unless otherwise stated. Each work directive shall include the following information as a minimum:

- (1) Work Directive number and title
- (2) Reference to the applicable paragraph in section C
- (3) Objective of the Work Directive
- (4) Number of hours necessary to perform the work (includes subcontractors)
- (5) Detailed description of work to be performed
- (6) Estimated completion date(s)
- (7) Identification of applicable contract number, Contractors name and address
- (8) Identification of software, data and/or hardware to be delivered to TARDEC
- (9) Contracting Officers Signature

C.1.2.2 The Contractor shall immediately notify the PCO by telephone or e-mail if the delivery dates specified in the Work Directive will not be met and shall follow up with a written or electronic notification to the PCO and COTR.

C.1.2.3 The Government has the unilateral right to increase, decrease or prioritize the work to be performed by the issuance of Work Directives signed by the Procuring Contracting Officer. It is understood and agreed that such adjustments shall be made within the general scope of work and level of effort of the contract. The COTR has the right to prioritize the work being performed under this contract.

C.1.2.4 If, at any time, the Contractor has reason to believe that the amount (hours, other direct costs of material, and travel) which it expects to incur in the performance of a Work Directive are insufficient, the Contractor shall provide written notification to the COTR for appropriate action. The Contractor shall furnish a revised statement of total hours to complete such work together with the written notice. The Government does not authorize the Contractor to expend dollars or hours in excess of the Work Directive.

C.1.3 The Contractor shall use computer software that is compatible with Microsoft Windows 2000, Microsoft Office 2000 and Pro-E when applicable. The contractor shall utilize the Windchill Advanced Collaborative Environment (ACE), as described in C.5.3, when required under applicable work directive.

C.1.4 Generality Statement: This scope of work is intended to be general in nature and is representative of the types of efforts that may be authorized by Work Directive.

C.2 OVERVIEW and GENERAL TASKS/EFFORTS

C.2.1 Overview: This program intends to leverage work performed under the ARL-CCM Cooperative Agreement (DAAD19-01-02-0005). Under this SOW, the Contractor will be required to work on furthering the development and implementation of composites into Army platforms. Examples of the programs to be worked on are: a composite cab for the HEMTT A3 cab program and an all composite military vehicle(ACMV) for the AMCV program.

C.2.2 Tasks/efforts: The following are the tasks/efforts required of the Contractor under this LOE contract. This list is not all inclusive.

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- (1) General Engineering
- (2) Modeling and Simulation (M&S)
- (3) Design and Engineering Analysis
- (4) Engineering Drawings
- (5) Processing
- (6) Optimization
- (7) Testing and Test Support

C.3 GENERAL ENGINEERING: The Contractor shall conduct design or redesign efforts in accordance with standard commercial practices. Work directives may include: feasibility and trade-off studies; concepts; market studies; design efforts; redesign efforts; re-engineering efforts; development of hardware; fabrication of hardware, software and prototypes; as well as testing, as necessary. The Contractor shall fabricate, procure, install or otherwise provide, on a limited basis, hardware (prototype, development or off-the-shelf) or components, kits and assemblies that may be required to support Work Directive activity. The Contractor shall conduct applied research, develop conceptual and advanced concepts, develop engineering designs, fabricate prototype hardware, and perform laboratory, field and vehicle tests as necessary to conduct and support research and development of composite structures, kits, assemblies, etc. for Army vehicles. The Contractor shall provide necessary qualified personnel to support engineering data, test planning and technical exchange meetings as required by each Work Directive. The work performed may also include engineering support for system development.

C.3.1 MODELING and SIMULATION (M&S): When appropriate, the Contractor shall utilize standard modeling and simulation (M&S) tools, including: Computer Aided Design (CAD), Computer Aided Manufacturing (CAM), and Finite Element Analysis (FEA).

C.3.2 DESIGN AND ENGINEERING ANALYSIS: The Contractor shall be responsible to see that all analyses, as required by Work Directive, are conducted in accordance with standard commercial practices and may include: structural analysis; fatigue analysis; failure analyses; cost, schedule and performance analyses.

C.3.3 ENGINEERING DRAWINGS:

C.3.3.1 The Contractor shall prepare and maintain engineering drawings, specifications, and other technical data comprising the configuration baseline for Government approved projects under this Contract.

C.3.3.2 The Contractor shall provide exploded view drawings of hardware and assemblies when requested by work directive.

C.3.3.3 In order to expedite and make for a robust technical data package (TDP) the Contractor shall provide to the Government 3-Dimensional native drawings-CAD drawings that are accompanied by all data needed to have full control of the CAD files-and 2-Dimensional drawings when required by applicable Work Directive.

C.3.4 PROCESSING

C.3.4.1 Process Development: The Contractor shall develop all necessary processes to complete tasks pursuant to an issued Work Directive.

C.3.5 OPTIMIZATION

C.3.5.1 In accordance with the TACOMs Long Term Armor Strategy (LTAS), the Contractor, under applicable Work Directive, shall be required to structurally analyze composite structures or armor structures to ensure that the integration of add-on-armor is optimized.

C.3.5.2 Notwithstanding anything to the contrary in section C.3.5.1 the Contractor shall, under no circumstances, be required or requested to develop anything of a classified nature.

C.3.5.3 The Contractor, under applicable Work Directive, shall optimize the composite structures generated under this contract to be manufactured using low cost tooling and processes.

C.4 TESTING AND TEST SUPPORT

C.4.1 The Contractor shall conduct all tests in accordance with standard commercial practices, unless otherwise directed through Work Directive. These tests shall include: fatigue testing; structural testing; static, dynamic and cyclic loading; tensile testing; compression testing; fracture toughness; other standard commercial tests; and any tests required by applicable Work Directive.

C.4.2 If testing is required or desired to be performed at a Government facility or proving ground the Contractor shall be

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responsible for making all the necessary arrangements for said tests.

C.5 PROGRAM MANAGEMENT

C.5.1 Data Deliverables: As specified in Exhibit A, DD Form 1423 Contract Data Requirements List (CDRL), data items # A001, A002, A003, A004, A005, A006, and A007: The Contractor shall prepare, reproduce, assemble, package and deliver data items, including quarterly progress and status reports (costs, schedule, contractual management and work directive status), work directive final reports, conference and meeting minutes, test results, product drawings, software, and presentation materials.

C.5.1.1 Contractors Progress, Status and Management Report, subtitled Cost and Performance Reports: The Contractor shall submit quarterly reports in accordance with data item A001. These reports shall provide the Government with the means to evaluate and monitor the progress made by the contractor, in terms of cost and performance, in accomplishing assigned tasks, under Work Directive.

C.5.1.2 Scientific and Technical Reports, subtitled Work Directive Final Reports: The Contractor shall submit Work Directive final reports in accordance with data item A002. The reports shall describe to the analytical and scientific community the precise nature and results of the tasks pursued under the Work Directive. The discussion shall describe the technical issues pertinent to the task completely and detail the necessary steps, if any, required to further improve the item or study requested in the Work Directive.

C.5.1.3 Conference Minutes, subtitled All Conference and Meeting Minutes: The Contractor shall prepare and provide meeting minutes in accordance with data item A003. The Contractor shall develop, generate and provide minutes that document technical information, program information, and data required to record decisions and agreements reached during COTR meetings, any meetings with Government personnel, meetings with subcontractors, and email or telephone discussions during which conclusions or program direction decisions are made, or new information is discovered or clarified.

C.5.1.4 Scientific and Technical Reports, subtitled Test Results: The Contractor shall prepare and provide the COTR with test results in accordance with data item A004. The test results will demonstrate the fatigue performance, load carrying capability, thermal expansion, and other properties to determine whether the physical properties of the components/assemblies tested meet the weight and structural requirements of the particular system.

C.5.1.5 Product Drawings/Models and Associated Lists: The Contractor shall deliver Product Drawings/Model and Associated Lists in accordance with data item A005. The Contractor shall deliver these materials within fourteen (14) days of the date of request, or as indicated by applicable Work Directive.

C.5.1.6 Software: If the Contractor generates any new software or enhances commercially available software through the addition of new routines, functions, etc., in the course of executing tasks under applicable Work Directive, then the Contractor shall deliver the software to the Government, in accordance with data item A006.

C.5.1.7 Presentation Materials: The Contractor shall deliver presentation materials upon request and within fourteen (14) days of the request, in accordance with data item A007.

C.5.1.8 Coordinated Test Plan: The Contractor shall deliver a test plan as indicated by applicable Work Directive.

C.5.2 Access to Data: The Contractor agrees to provide access to all records and data. The Government shall have the right to access all records and data, to require delivery of any such records and data and to retain any delivered records and data.

C.5.3 Advanced Collaborative Environment (ACE): The Contractor shall use the existing government furnished Advanced Collaborative Environment from TARDEC to facilitate all collaboration and information sharing between Composite Structures Initiative participants when required under applicable work directive. The TARDEC ACE is based on PTCs Windchill suite. The ACE will be used as an information sharing/collaboration environment that provides controlled, distributed access to all designated Composite Structures Initiatives and product information, both released and in work, and work flows to facilitate the programs business processes. The ACE will be the single authoritative source for all designated Composite Structures Initiative information. The ACE will be used by all designated Composite Structures Initiative participants including subcontractors, as necessary, to facilitate real-time distribution and controlled access during program execution (beginning day 1). The Information types that will be managed by the ACE include documents/reports, program management data, meeting-related information, modeling and simulation/analysis data, product data/Technical Data Packages, manufacturing information, and test data, in accordance with the programs data classification guide. The ACE will provide iteration histories and multiple levels of access control for all managed information. The ACE will also enable both desktop computer visualization and virtual design reviews of product data. The collaboration features will support focused tasks to be isolated (data and invited participants) within separate

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activities/projects from the larger program-level context and support threaded discussions, local actions, and in-work files.

C.6 MEETINGS

C.6.1 The post-award Start of Work meeting shall be convened by the Contractor within thirty (30) days after the contract award at the Contractors facility or the Governments facility at the COTRs determination.

C.6.2 The Contractor shall provide administrative support, such as coordination of the meeting, scheduling the location, preparation of information being presented and providing minutes. As a minimum, management meetings between the Government and the Contractor will be held annually. Location of these meetings may alternate between TARDEC and the Contractors facility at the Governments option.

C.6.3 The Contractor shall be required to conduct project reviews at the Contractors facility, sub-contractor/vendor facility or any Government facility. The Contractor shall attend and take part in those meetings, no more than 3 per year, and prepare minutes per data item A003 of CDRL DD Form 1423. An agenda will be coordinated between TARDEC and the Contractor prior to contractor hosted reviews and shall include information per Section H.3.

C.6.4 Meeting minutes are due within four (4) working days following a meeting, as specified in Exhibit A, per DD form 1423 Contract Data Requirements List, data item A003. The Contractor shall develop/generate minutes that document technical information and data required to record decisions and agreements reached during meetings to include: meetings with Government personnel, meeting with sub-contractors, E-mail or telephone discussions during which conclusion or program direction decisions are made, or new information is discovered or clarified.

C.7 SECURITY CLEARANCES

C.7.1 Some Contractor personnel may require a security clearance during the execution of this LOE contract. The Contractor shall submit a list to the COTR containing the Contractors recommendations for individuals whom the Contractor deems necessary to obtain a security clearance after award of this contract, if such a clearance becomes required. The COTR will review and approve the list, but retains the unilateral right to add, delete, or change any of the recommendations.

C.7.2 Notwithstanding anything to the contrary in section C.7.1, the Contractor shall not be required to have a classified facility; to perform classified research; or to receive classified materials.

C.7.3 Export Control. No aspects of the Export Control laws and regulations can be waived or are waived by virtue of this contract. The contractor is advised that the responsibility to comply with export control requirements belongs solely to the contractor.

\*\*\* END OF NARRATIVE C0001 \*\*\*

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SECTION H - SPECIAL CONTRACT REQUIREMENTS

SPECIAL PROVISIONS

H.1 OPTION FOR ADDITIONAL LEVEL OF EFFORT

H.1.1 The Government shall have the unilateral right to increase the contract Level-of-Effort (LOE) by up to 269,074 additional hours, as follows:

H.1.1.1 The Government may exercise the option in any number of increments at any time but not later than sixty (60) months after contract award, in accordance with the rate schedule listed in Section B.4.1.1.

H.1.1.2 The period of performance for the work to be done shall be as specified in the work directives.

H.1.1.3 The Government may exercise the option by adding to any existing CLIN, or by establishing a new CLIN.

H.1.2 Total option hours exercised to date are 11,756 hours. Option hours remaining available for exercise are 257,318.

H.2 GOVERNMENT FURNISHED INFORMATION (GFI):

GFI will be provided to the contractor as required by individual work directive(s).

H.3 TECHNICAL AND COST STATUS REVIEWS

Formal technical and cost status reviews shall be held as needed to inform the Government (COTR and staff) of the technical details, current problems, schedule status and cost status of each current work directive. The contractor shall also present the overall cost status of the contract at these reviews. The Government reserves the right to call these technical and cost status reviews as needed to discuss specific cost or technical issues. Not more than three (3) such reviews per year are anticipated. Reviews may be held at the contractor's facility or at TACOM as deemed necessary by the COTR and may included as part of the project review.

H.4 CERTIFICATION OF PRIOR EFFORT

For efforts established by work directive, the contractor shall certify that he has knowledge of the subject matter and that he can perform the requirements of the work directive. The certification shall be executed and received by the Contracting Officer no later than three (3) working days after receipt of the executed work directive.

H.5 SUBCONTRACTING PLAN

University of Delaware's subcontracting plan dated 16 February 2007 and approved on 16 March 2007, is incorporated by reference to this contract.

H.6 PRE-CONTRACT COSTS

The Government recognizes that in anticipation of the issuance of this contract and the urgency of the program itself, the contract has incurred costs since 1 December 2006. Such costs, to the maximum of \$437,000, are allowable to the extent that they would have been allowable and allocable, if incurred after the date of contract award and in accordance with FAR 31.205-32.

H.7 DISCLOSURE OF INFORMATION

All unclassified information proposed for release outside the contractor's organization shall be submitted to the Contracting Officer for review and approval. The Contracting Officer shall grant approval for disclosure of information pursuant to DFARS Clause 252.204-7000 (Disclosure of Information), incorporated by reference in this Contract, except where the Contracting Officer, in his or her sole discretion, determines that denying such approval is required:

(1) to prevent the disclosure of Government-sensitive national security information, including operational security information;

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(2) to prevent the inadvertent disclosure of information covered by a legal privilege;

(3) to ensure the protection of intellectual property rights; or

(4) to prevent the adverse effect on the national interest, the conduct of Army programs, or the privacy of individuals.

The parties agree that this Special Provision is NOT a basis for excluding the University of Delaware from compliance with the International Traffic in Arms Regulations (ITAR) or the Export Administration Regulations (EAR), with regard to this contract. The University of Delaware agrees to comply with these and all other export control requirements with regard to this contract.

This Special Provision shall not flow down to any subcontractors, except that the requirement for ITAR compliance or EAR compliance shall flow down to all subcontractors.

H.8      GOVERNMENT FURNISHED PROPERTY

A list of Government Furnished Property (GFP) applicable to this contract, is set forth in Attachment 0002. The property was previously accountable under Contract DAAE07-02-C-L077, with Sioux Manufacturing Corp (SMC). The accountability is being transferred to this contract; however, the property will physically remain at its current location with SMC.

\*\*\* END OF NARRATIVE H0001 \*\*\*



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SECTION J - LIST OF ATTACHMENTS

<u>List of Addenda</u>	<u>Title</u>	<u>Date</u>	<u>Number of Pages</u>	<u>Transmitted By</u>
Exhibit A	CONTRACT DATA REQUIREMENTS LIST (DD FORM 1423)	11-JUL-2007	007	EMAIL
Attachment 0002	GOVERNMENT FURNISHED PROPERTY LIST	10-JUL-2007	001	EMAIL

CONTRACT DATA REQUIREMENTS LIST

Form Approval OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 440 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO.: 0002  
 B. EXHIBIT: A  
 C. CATEGORY:  
 D. SYSTEM/ITEM: Composite Structures Initiative  
 E. SOLICITATION/PR NO.: W56HZV-06-R-0478  
 CONTRACT NO.: W56HZV-07-C-0142  
 F. CONTRACTOR: University of Delaware Center for Composite Materials, CAGE 015X1

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1. DATA ITEM NO. A001
2. TITLE OF DATA ITEM: Contractors Progress, Status and Management Report
3. SUBTITLE: Cost and Performance Reports
4. AUTHORITY DI-MGMT-80227(T)
5. CONTRACT REFERENCE: C.5.1.1
6. REQUIRING OFFICE: AMSRD-TAR-N/233
7. DD250: LT
8. APP CODE: N/A
9. DIST. STATEMENT: D, see BLK 16
10. FREQUENCY: QTRLY, see BLK 16
11. AS OF DATE: N/A
12. DATE OF FIRST SUB: 90 DAC
13. DATE OF SUBS. SUB: see BLK 16

14. DISTRIBUTION:	A. ADDRESSEES	B. COPIES:	Draft	FINAL
	Mr. John Stepowski, COTR, E-mail: john.stepowski@us.army.mil			1
	Ms. Sherri Henderson, Contracting Specialist, E-mail: sherri.henderson@us.army.mil			1
	Cognizant ACO, DCMA			1
		15. TOTAL:		3

16. a. REMARKS: Contractor shall submit via email, cost and performance reports, on a quarterly basis. These reports shall provide the Government with the means to evaluate and monitor the progress made by the contractor, in terms of cost, schedule, contractual management, and performance. In addition these reports shall inform the Government on Work Directive status and existing or potential problem areas.

BLK 9: This statement shall appear on all correspondence, Distribution Statement D: Distribution authorized to the Department of Defense and U.S. DoD contractors only.

BLK 12: The first cost and performance report will be due one hundred five (105) days after the award of the contract.

BLK 13: Each reporting period is ninety (90) days and each report submission is due fifteen (15) days after the reporting period.

b. Complete the reports in accordance with (IAW) Data Item Description (DID) DI-MGMT-80227, "Contractor's Progress, Status, and Management Report." See DID DI-MGMT-80227, at the Internet address below, for instructions on completing the required report.

<http://assist.daps.dla.mil/docimages/0001/48/17/DI80227.PD8>

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1. DATA ITEM NO. A002
2. TITLE OF DATA ITEM: Scientific and Technical Reports
3. SUBTITLE: Work Directive Final Reports
4. AUTHORITY: DI-MISC-80711A(T)
5. CONTRACT REFERENCE: C.5.1.2
6. REQUIRING OFFICE: AMSRD-TAR-N/233
7. DD250 REQ: DD
8. APP CODE: A, See BLK 16
9. DIST. STATEMENT REQUIRED: D, see BLK 16
10. FREQUENCY: See BLK 16
11. AS OF DATE: N/A
12. DATE OF FIRST SUB: See BLK 16
13. DATE OF SUBS. See BLK 16

14. DISTRIBUTION:	A. ADDRESSEES	B. COPIES:	Draft	FINAL
	Mr. John Stepowski, COTR, E-mail: john.stepowski@us.army.mil		1	1
	Ms. Sherri Henderson, Contracting Specialist, E-mail: sherri.henderson@us.army.mil			1
	Cognizant ACO, DCMA			1
		15. TOTAL:	1	3

16. a. REMARKS: The Contractor shall submit via email technical reports that describe to the analytical and scientific community the precise nature and results of the tasks pursued under the work directive. The discussion shall describe completely the technical details pertinent to the task and detail the necessary steps, if any, required to further improve the item or study requested in the Work Directive.

BLK 8: The requiring office is the approval authority for these reports. The contractor shall submit a draft report within thirty (30) days after the close of a Work Directive. The Government will have fifteen (15) days to review the draft. The draft and any Government comments will be sent back to the contractor for changes. The contractor shall have fifteen (15) days to make changes, if applicable, and submit a final report. The Government will have seven (7) days to approve the final report, if after seven (7) days the Government has failed to approve or disapprove the report, the report will be deemed approved by default. If the approval authority disapproves the final report the contractor shall have seven (7) days to amend the report and resubmit it per the Governments comments. Note that all report versions shall be submitted with a completed Standard Form (SF) 298 (Report Documentation Page) as the reports cover page.

BLK 9: This statement shall appear on all correspondence, Distribution Statement D: Distribution authorized to the Department of Defense and U.S. DoD contractors only.

BLK 10: Once per Work Directive, following the procedure of BLK 8.

BLK 12: The first submission will be a draft report due thirty (30) days after the close of the first Work Directive.

BLK 13: Subsequent Work Directive Final Reports shall be submitted after the close of each Work Directive, following the procedure of BLK 8.

b. Complete the reports in accordance with (IAW) Data Item Description (DID) DI-FNCL-80711A , "Contractor's Scientific and Technical Report." The COTR is responsible for accepting or rejecting the "Contractor's Scientific and Technical Report. See DID DI-MISC-80711A, at the Internet address below, for instructions on completing the required report.

<http://assist.daps.dla.mil/docimages/0002/27/88/80711A.PD4>

\*\*\*\*\*

1. DATA ITEM NO. A003
2. TITLE OF DATA ITEM: Conference Minutes
3. SUBTITLE: Conference and Meeting Minutes
4. AUTHORITY: DI-ADMN-81250A(T)
5. CONTRACT REFERENCE: C.5.1.3
6. REQUIRING OFFICE: AMSRD-TAR-N/233

7. DD250 REQ: LT  
8. APP CODE: N/A  
9. DIST. STATEMENT REQUIRED: D, see BLK 16  
10. FREQUENCY: See BLK 16  
11. AS OF DATE: N/A  
12. DATE OF FIRST SUB: See BLK 16  
13. DATE OF SUBS. See BLK 16

14. DISTRIBUTION:	A. ADDRESSEES	B. COPIES:	Draft	FINAL
Mr. John Stepowski, COTR, E-mail: john.stepowski@us.army.mil				1
		15. TOTAL:		1

16. REMARKS:

a. The contractor shall develop/generate and provide to the Government COTR meeting minutes that document the technical/program information and data required to record decisions and agreements reached during meetings to include: meetings with Government personnel, meetings with subcontractors, email or telephone discussions during which conclusions or program direction decisions are made, or new information is discovered or clarified.

BLK 9: This statement shall appear on all correspondence, Distribution Statement D: Distribution authorized to the Department of Defense and U.S. DoD contractors only.

BLK 10: The frequency shall be as required, requested or when appropriate.

BLK 12: The first submission shall be seven (7) days after occurrence of the first meeting or conference.

BLK 13: Subsequent submissions of meeting minutes shall be due within seven (7) days following the occurrence of any meeting or conference.

b. Complete the reports in accordance with (IAW) Data Item Description (DID) DI-ADMN-81250A, "Conference Minutes". See DID DI-ADMN-81250A, at the Internet address below, for instructions on completing the required report.

<http://assist.daps.dla.mil/docimages/0001/73/96/81250A.PD2>

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1. DATA ITEM NO. A004  
2. TITLE OF DATA ITEM: Scientific and Technical Report  
3. SUBTITLE: Test Results  
4. AUTHORITY: DI-MISC-80711A(T)  
5. CONTRACT REFERENCE: C.5.1.4  
6. REQUIRING OFFICE: AMSRD-TAR-N/233  
7. DD250 REQ: LT  
8. APP CODE: N/A  
9. DIST. STATEMENT REQUIRED: D, see BLK 16  
10. FREQUENCY: ASREQ, see BLK 16  
11. AS OF DATE: N/A  
12. DATE OF FIRST SUB: see BLK 16  
13. DATE OF SUBS: see BLK 16

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		15. TOTAL:		1

16. REMARKS:

a. The contractor shall prepare and provide Test Results for any testing performed under this contract. Anticipated tests include: fatigue performance, load carrying capability, thermal expansion, and other properties to determine whether the physical properties of the components/assemblies tested meet the weight and structural requirements of the particular system. Depending on the specific component, test results shall include any of the following: weight, strength, stiffness, fatigue performance, ballistic performance, live fire, deflection, joint strength, weld strength, or additional test results as required in each individual work directive. Note that all reports should be submitted with a completed Standard Form (SF) 298 (Report Documentation Page) as the reports cover page.

BLK 9: This statement shall appear on all correspondence, Distribution Statement D: Distribution authorized to the Department of Defense and U.S. DoD contractors only.

BLK 10: The frequency of these reports shall be As REQuired (ASREQ). This means that the reports shall only be submitted after testing and analyses, as defined by test plans developed under Work Directive, are complete. The Government reserves the right to request a test report prior to the completion of all tasks in a test plan should there be an urgent need for the data and conclusion to support mission requirements.

BLK 12: The first submission shall be no later than (NLT) thirty (30) days after completion of the first test plan under this contract.

BLK 13: Subsequent submission shall be due NLT thirty (30) days following the completion of subsequent test plans under this contract.

b. Complete the reports in accordance with (IAW) Data Item Description (DID) DI-FNCL-80711A , "Contractor's Scientific and Technical Report." The COTR is responsible for accepting or rejecting the "Contractor's Scientific and Technical Report. See DID DI-MISC-80711A, at the Internet address below, for instructions on completing the required report.

<http://assist.daps.dla.mil/docimages/0002/27/88/80711A.PD4>

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1. DATA ITEM NO. A005
2. TITLE OF DATA ITEM: Product Drawings/Model and Associated Lists
3. SUBTITLE: N/A
4. AUTHORITY: DI-SESS-81000C
5. CONTRACT REFERENCE: C.5.1.5
6. REQUIRING OFFICE: AMSRD-TAR-N/233
7. DD250 REQ: NO
8. APP CODE: N/A
9. DIST. STATEMENT REQUIRED: D, see BLK 16
10. FREQUENCY: ASREQ, see BLK 16
11. AS OF DATE: N/A
12. DATE OF FIRST SUB: see BLK 16
13. DATE OF SUBS: see BLK 16

14. DISTRIBUTION:	A. ADDRESSEES	B. COPIES:	Draft	FINAL
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		15. TOTAL:		1

16. REMARKS:

a. The Contractor shall deliver Product Drawings/Model and Associated Lists, including exploded view drawings. The Contractor shall deliver these materials within fourteen (14) days after completion or as requested.

BLK 9: This statement shall appear on all correspondence, Distribution Statement D: Distribution authorized to the Department of Defense and U.S. DoD contractors only.

BLK 10: The frequency of these reports shall be AS REQuired (ASREQ), or as defined in applicable Work Directive.

BLK 12: The first submission shall be no later than (NLT) fourteen (14) days after completion or of the first request for such data, as indicated in applicable Work Directive.

BLK 13: Subsequent submissions shall be due NLT fourteen (14) days after subsequent requests, or as indicated in applicable Work Directives.

b. Drawings must be in full accordance with Data Item Description (DID) DI-SESS-81000C ("Product Drawings/Models and Associated Lists"), as well as MIL-DTL-31000C (Detail Specification for Technical Data Packages). The Contractor shall submit 3-dimensional models of the items developed under this contract. Files must be generated using Pro/E, or be capable of being imported into Pro/E and other applications without significant data loss.

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1. DATA ITEM NO. A006
2. TITLE OF DATA ITEM: Software
3. SUBTITLE: N/A
4. AUTHORITY: N/A
5. CONTRACT REFERENCE: C.5.1.6
6. REQUIRING OFFICE: AMSRD-TAR-N/233
7. DD250 REQ: NO
8. APP CODE: N/A
9. DIST. STATEMENT REQUIRED: D, see BLK 16
10. FREQUENCY: ASREQ, see BLK 16
11. AS OF DATE: N/A
12. DATE OF FIRST SUB: see BLK 16
13. DATE OF SUBS: see BLK 16

14. DISTRIBUTION:	A. ADDRESSEES	B. COPIES:	Draft	FINAL
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15. TOTAL:	1
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16. REMARKS: If the Contractor generates any new software or enhances commercially available software through the addition of new routines, functions, etc., in the course of executing tasks under applicable Work Directive, then the Contractor shall deliver the software to the Government.

BLK 9: This statement shall appear on all correspondence, Distribution Statement D: Distribution authorized to the Department of Defense and U.S. DoD contractors only.

BLK 10: The frequency of these submissions shall be As REquired (ASREQ).

BLK 12: ASREQ

BLK 13: ASREQ

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1. DATA ITEM NO. A007
2. TITLE OF DATA ITEM: Presentation Materials
3. SUBTITLE: N/A
4. AUTHORITY: DI-ADNM-81373
5. CONTRACT REFERENCE: C.5.1.7
6. REQUIRING OFFICE: AMSRD-TAR-N/233
7. DD250 REQ: NO
8. APP CODE: N/A
9. DIST. STATEMENT REQUIRED: D, see BLK 16
10. FREQUENCY: ASREQ, see BLK 16
11. AS OF DATE: N/A
12. DATE OF FIRST SUB: see BLK 16
13. DATE OF SUBS: see BLK 16

14. DISTRIBUTION				
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Mr. John Stepowski, COTR, E-mail: john.stepowski@us.army.mil				1

15. TOTAL:	1
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16. REMARKS:

a. The Contractor shall deliver presentation materials upon request and within fourteen (14) days of the date of request.

b. Presentation materials may contain pictures, project information, and data about the physical characteristics of the systems designed or developed under the contract such as weight, material properties, ballistic and blast properties, cost, etc.

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1. DATA ITEM NO. A008
2. TITLE OF DATA ITEM: Coordinated Test Plan
3. SUBTITLE: N/A
4. AUTHORITY: DI-MGMT-80937
5. CONTRACT REFERENCE: C.5.1.8
6. REQUIRING OFFICE: AMSRD-TAR-N/233
7. DD250 REQ: NO
8. APP CODE: N/A
9. DIST. STATEMENT REQUIRED: D, see BLK 16
10. FREQUENCY: ASREQ, see BLK 16
11. AS OF DATE: N/A
12. DATE OF FIRST SUB: see BLK 16
13. DATE OF SUBS: see BLK 16

14. DISTRIBUTION

A. ADDRESSEES

Mr. John Stepowski, COTR, E-mail: john.stepowski@us.army.mil

B. COPIES: Draft FINAL

1

Ms. Nance Halle, Technical POC, E-mail: nance.halle@us.army.mil

1

15. TOTAL:

2

16. REMARKS:

- a. The Contractor shall deliver a test plan as indicated by work directive.
- b. Delete subparagraphs 10.2.1 (d), 10.2.1 (e), 10.2.2 (d), and in 10.2.2 (e), delete the words "nuclear survivability".

\*\*\*\*\*THE FOLLOWING APPLIES TO ALL OF THE DATA ITEMS LISTED ABOVE\*\*\*\*\*

Prepare the reports in the Contractor's format. Submit the reports using any of the following electronic formats:

- (1) Files readable using Microsoft PowerPoint XP(TACOM can currently read OFFICE XP Professional\* and lower).
- (2) Files in Adobe PDF (Portable Document Format). Scanners should be set to 200 dots per inch.
- (3) Files in HTML (Hypertext Markup Language). HTML documents must not contain active links to live Internet sites or pages. All linked information must be contained within your electronic report, and be accessible offline.
  - (a) The above formats may be submitted in compressed form using self-extracting files.
  - (b) Files may be read-only, password protected.
  - (c) Acceptable media: The Contractor shall submit reports via e-mail. If e-mail is not workable, other acceptable media include CD-ROM or a Parcel Post type of file sending system. Identify the software application and version used to create each file submitted.
- (4) E-MAIL. Maximum size of each e-mail message shall be three and one-half (3.5) megabytes. Any compressed files must be self-extracting, and you must provide appropriate instructions. You may use multiple e-mail messages if necessary; however, you must annotate the subject lines in this manner: "Message 1 of 3, 2 of 3, 3 of 3."
- (5) CD ROM via U.S. Mail or other carrier. The Contractor shall label all submitted disks with the Contract number, the Contractor's name, address and a contact's phone number.

NOTE: Please select only one medium by which to transmit each report. For instance, do not submit a report via e-mail and CD ROM. Registered Trademark

17. PRICE GROUP:

18. ESTIMATED TOTAL PRICE:

**PIIN/SIIN** W56HZV-07-C-0142  
**MOD/AMD** P00002  
**ATT/EXH ID** Exhibit A  
**PAGE** 7



Attachment 0002, Government Furnished Property List

GFP transferred from DAAE07-02-C-L077, Sioux Manufacturing Corp. to  
 W56HZV-07-C-0142, University of Delaware Center for Composite Materials.

<u>Description</u>	<u>Qty</u>	<u>Replacement Cost</u>
M939 Fender	1 ea - left	\$ 1,033.78
M939 Fender	1ea right	\$ 1,033.78
M35 Fenders	1 ea left	\$ 1,360.38
Mine Blast Infusion Tool	1 ea	\$23,600.00
Mine Blast PreForm Tool	1 ea	\$19,500.00
12255869-1 M939 Fender Mold tool	1 ea	\$ 1,639.00
12255869-2 M939 Fender Mold tool	1 ea	<u>\$ 1,639.00</u>
Overall total		\$49,805.94